



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

**Region 6 Laboratory**

Environmental Services Branch  
10625 Fallstone Road, Houston, TX 77099  
Phone: (281)983-2100 Fax: (281)983-2248

**DRAFT Final Analytical Report**

Site Name -----Dimock Residential Groundwater Site

Sample Collection Date(s)-- 03/05/12 - 03/08/12

Contact----- Cynthia Caporale (3EA21)

Report Date----- 03/16/12

Project #----- 12SF073

Work Order(s)----- 1203005  
1203007  
1203012

**Analyses included in this report:**

ABN Glycols

**Report Narrative**

Standard procedures for quality assurance and quality control were followed in the analysis and reporting of the sample results. The results apply only to the samples tested. This final report should only be reproduced in full.

Reporting limits are adjusted for sample size and matrix interference.

Report Approvals:

\_\_\_\_\_  
Richard McMillin  
Region 6 Laboratory Manager

\_\_\_\_\_  
David Neleigh  
Region 6 Laboratory Branch Chief



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Environmental Services Branch Laboratory

10625 Fallstone Road  
Houston, Texas 77099

Sample Receipt and Disposal

Site Name: Dimock Residential Groundwater Site

Project Number: 12SF073

Data Management Coordinator: Christy Warren

\_\_\_\_\_  
Data Management Coordinator Signature

\_\_\_\_/\_\_\_\_/\_\_\_\_  
Date

Date Transmitted: \_\_\_\_/\_\_\_\_/\_\_\_\_

Please have the U.S. EPA Project Manager/Officer call the Data Management Coordinator at 3-2137 for any comments or questions.

Please sign and date this form below and return it with any comments to:

Christy Warren  
Data Management Coordinator  
Region 6 Laboratory  
6MD-HS

\_\_\_\_/\_\_\_\_/\_\_\_\_  
Received by and Date

Comments:

The laboratory routinely disposes of samples 90 days after all analyses have been completed. If you have a need to hold these samples in custody longer than 90 days, please sign below.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

Please provide a reason for holding:



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**ANALYTICAL REPORT FOR SAMPLES**

Station ID	Laboratory ID	Sample Type	Date Collected	Date Received
FB19	1203005-01	Liquid	3/5/12 9:36	03/07/12 09:50
HW56	1203005-02	Liquid	3/5/12 16:54	03/07/12 09:50
HW60	1203005-03	Liquid	3/5/12 12:25	03/07/12 09:50
FB20	1203007-01	Liquid	3/6/12 14:00	03/08/12 09:00
HW61	1203007-02	Liquid	3/6/12 15:42	03/08/12 09:00
HW61-P	1203007-03	Liquid	3/6/12 16:00	03/08/12 09:00
HW61z	1203007-04	Liquid	3/7/12 15:42	03/08/12 09:00
FB21	1203012-01	Liquid	3/8/12 13:38	03/09/12 09:30
HW50	1203012-02	Liquid	3/8/12 15:09	03/09/12 09:30



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**Glycols by Direct Aqueous Injection Modified 8270 - GC/MS**

ABN Glycols

**Lab ID: 1203005-01**

**Station ID: FB19**

Batch: B2C0702

Date Collected: 03/05/12

Sample Type: Liquid

Sample Volume: 1 ml

Sample Qualifiers:

Analyst: kws

**Targets**

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		0.5	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		0.5	"	"	"

kws



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**Glycols by Direct Aqueous Injection Modified 8270 - GC/MS**

ABN Glycols

**Lab ID: 1203005-02**

**Station ID: HW56**

Batch: B2C0702

Date Collected: 03/05/12

Sample Type: Liquid

Sample Volume: 1 ml

Sample Qualifiers:

Analyst: kws

**Targets**

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		0.5	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		0.5	"	"	"

kws



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**Glycols by Direct Aqueous Injection Modified 8270 - GC/MS**

ABN Glycols

**Lab ID: 1203005-03**

**Station ID: HW60**

Batch: B2C0702

Date Collected: 03/05/12

Sample Type: Liquid

Sample Volume: 1 ml

Sample Qualifiers:

Analyst: kws

**Targets**

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		0.5	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		0.5	"	"	"

kws





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**Glycols by Direct Aqueous Injection Modified 8270 - GC/MS**

ABN Glycols

**Lab ID: 1203007-01**

**Station ID: FB20**

Batch: B2C0702

Date Collected: 03/06/12

Sample Type: Liquid

Sample Volume: 1 ml

Sample Qualifiers:

Analyst: kws

**Targets**

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		0.5	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		0.5	"	"	"

kws



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**Glycols by Direct Aqueous Injection Modified 8270 - GC/MS**

ABN Glycols

**Lab ID: 1203007-02**

**Station ID: HW61**

Batch: B2C0702

Date Collected: 03/06/12

Sample Type: Liquid

Sample Volume: 1 ml

Sample Qualifiers:

Analyst: kws

**Targets**

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		0.5	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		0.5	"	"	"

kws





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**Glycols by Direct Aqueous Injection Modified 8270 - GC/MS**

ABN Glycols

**Lab ID: 1203007-03**

**Station ID: HW61-P**

Batch: B2C0702

Date Collected: 03/06/12

Sample Type: Liquid

Sample Volume: 1 ml

Sample Qualifiers:

Analyst: kws

**Targets**

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		0.5	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		0.5	"	"	"

kws



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**Glycols by Direct Aqueous Injection Modified 8270 - GC/MS**

ABN Glycols

**Lab ID: 1203007-04**

**Station ID: HW61z**

Batch: B2C0702

Date Collected: 03/07/12

Sample Type: Liquid

Sample Volume: 1 ml

Sample Qualifiers:

Analyst: kws

**Targets**

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		0.5	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		0.5	"	"	"

kws



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**Glycols by Direct Aqueous Injection Modified 8270 - GC/MS**

ABN Glycols

**Lab ID: 1203012-01**

**Station ID: FB21**

Batch: B2C0702

Date Collected: 03/08/12

Sample Type: Liquid

Sample Volume: 1 ml

Sample Qualifiers:

Analyst: kws

**Targets**

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		0.5	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		0.5	"	"	"

kws



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**Glycols by Direct Aqueous Injection Modified 8270 - GC/MS**

ABN Glycols

**Lab ID: 1203012-02**

**Station ID: HW50**

Batch: B2C0702

Date Collected: 03/08/12

Sample Type: Liquid

Sample Volume: 1 ml

Sample Qualifiers:

Analyst: kws

**Targets**

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		0.5	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		0.5	"	"	"

kws



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**Glycols by Direct Aqueous Injection Modified 8270 - GC/MS - Quality Control**

Batch: B2C0702

Sample Type: Liquid

**Blank (B2C0702-BLK1)**

Prepared: 3/9/2012 Analyzed: 3/9/2012

**Targets**

ANALYTE	Result mg/L	Analyte Reporting Qualifiers Limit
Propylene glycol	U	0.5
Ethylene glycol	U	0.5

**Blank (B2C0702-BLK2)**

Prepared: 3/14/2012 Analyzed: 3/14/2012

**Targets**

ANALYTE	Result mg/L	Analyte Reporting Qualifiers Limit
Propylene glycol	U	0.5
Ethylene glycol	0.5	0.5

**LCS (B2C0702-BS1)**

Prepared: 3/9/2012 Analyzed: 3/9/2012

**Targets**

ANALYTE	Result mg/L	Analyte Reporting Qualifiers Limit	Spike Level	%REC Limits
Propylene glycol	0.2	0.5		70-130
Ethylene glycol	48.7	0.5	50.0	97.5 70-130

**LCS (B2C0702-BS2)**

Prepared: 3/14/2012 Analyzed: 3/14/2012

**Targets**

ANALYTE	Result mg/L	Analyte Reporting Qualifiers Limit	Spike Level	%REC Limits
Propylene glycol	56.1	0.5	50.0	112 70-130
Ethylene glycol	51.5	0.5	50.0	103 70-130

Report Name: 1203005,1203007,1203012 DRAFT 03 16 12 1321

Report Format: R6\_Chem(18)

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**Glycols by Direct Aqueous Injection Modified 8270 - GC/MS - Quality Control**

Batch: B2C0702

Sample Type: Liquid

**Matrix Spike (B2C0702-MS1)**

Source: 1203005-02

Prepared: 3/9/2012 Analyzed: 3/9/2012

**Targets**

ANALYTE	Result mg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	Limits
Propylene glycol	46.3		0.5	50.0		92.6	70-130
Ethylene glycol	46.8		0.5	50.0	0.07	93.4	70-130

**Matrix Spike Dup (B2C0702-MSD1)**

Source: 1203005-02

Prepared: 3/9/2012 Analyzed: 3/9/2012

**Targets**

ANALYTE	Result mg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	Limit
Propylene glycol	44.7		0.5	50.0		89.3	70-130	3.63	30
Ethylene glycol	46.5		0.5	50.0	0.07	92.8	70-130	0.60	30



[illegible]

Sample Temp:  $6^{\circ}\text{C}$







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## Notes and Definitions

A	This sample was extracted at a single acid pH.
HTS	Sample was prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.
AES	Atomic Emission Spectrometer
CVAA	Cold Vapor Atomic Absorption
ECD	Electron Capture Detector
GC	Gas Chromatograph
GFAA	Graphite Furnace Atomic Absorption
ICP	Inductively Coupled Plasma
MS	Mass Spectrometer
NA	Not Applicable
NPD	Nitrogen Phosphorous Detector
NR	Not Reported
TCLP	Toxicity Characteristic Leaching Procedure
U	Undetected
#	Out of QC limits

Initial pressure in air analyses is the pressure at which the canister was received in psia (pounds *per* square inch absolute pressure).

The pH reported for Volatile liquid samples was tested using a 0-14 pH indicator strip for the purpose of verifying chemical preservation.

The statistical software used for the reporting of toxicity data is ToxCalc 5.0.32, Environmental Toxicity Data Analysis System 1994-2007 Tidepool Scientific Software.